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Cincinnati, Ohio

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Water Supply and Pollution Control

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IN: PROC. OF SYMPOSIUM, CINCINNATI, OHIO, AUG. 29-31, 1960. TECH. REP. W61-2. SEC. 1961. 238 PP.

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TECH. REP. W61-4. SEC. 1961. 30 PP.

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IN: PROC. OF SYMPOSIUM, CINCINNATI, OHIO, APR. 5-7, 1961. TECH. REP. W61-5. SEC. 1961. 218 PP.

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TECH. REP. W61-6. SEC. 1961. 52 PP.

W61-07
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ORGANIC MATERIALS IN SECONDARY EFFLUENTS□
JWPCF. 33:122-26. FEB. 1961.

*NOTE: Available Center publications are furnished to professional users without charge and may be requested on the enclosed order form. Many of the publications in this reference list are no longer available for distribution, but may be obtained from the publisher or from a technical library. The enclosed order form contains the numbers of available publications only.

W61-08
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JWPCF, 33:141-56, FEB. 1961.

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IN: PROC. 15TH IND. WASTE CONF., LAFAYETTE, IND., MAY 3-5, 1960. ENG. EXT. SER. NO. 106. ENG. BULL., PURDUE UNIV. 45(2):331-40. MAR. 1961. JWPCF. 33:167-75. FEB. 1961.

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PACIFIC SCI. 15:186-88. APR. 1961.

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IN: PROC. 15TH IND. WASTE CONF., LAFAYETTE, IND., MAY 3-5, 1960. ENG. EXT. SER. NO. 106. ENG. BULL., PURDUE UNIV. 45(2):35-48. MAR. 1961.

W61-20
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JWPCF. 33:239-49. MAR. 1961.

W61-21
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POWER ENGINEERING. 65:60-61. MAR. 1961.

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JAWWA. 53:749. JUNE 1961.

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JWPCF. 33:492-505. MAY 1961.

W61-25
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IN: PROC. 15TH IND. WASTE CONF., LAFAYETTE, IND., MAY 3-5, 1960. ENG. EXT. SER. NO. 106. ENG. BULL., PURDUE UNIV. 45(2):120-30. MAR. 1961.

W61-27
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THE USE OF VEGETABLE CULTURES AS THE PHOTOSYNTHETIC COMPONENT OF ISOLATED ECOLOGICAL CYCLES FOR SPACE TRAVEL□
IN: ADVANCES IN THE ASTRONAUTICAL SCIENCES, VOL. 6. PROC. 6TH ANNUAL MEETING, AM. ASTRONAUT. SOC., NEW YORK, N. Y., JAN. 18-21. 1960. MACMILLAN CO. NEW YORK. 1961.PP. 369-79.

W61-28
SIDIO AD RT HARTMAN P FUGAZZOTTO
FIRST DOMESTIC WASTE STABILIZATION POND IN PENNSYLVANIA□
PHR. 76:201-08. MAR. 1961.

W61-29
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TECH. REP. W61-29. SEC. 1961. 35 PP.

W61-30
PALMER CM
ALGAE AND WATER SUPPLIES OF THE SAO PAULO AREA□
TECH. REP. W61-30. SEC. 1961. 7 PP. REVISTA D.A.E. 21(37): 11-15. JUNE 1960.

W61-31
KABLER PW NA CLARKE G BERG
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VIRICIDAL EFFICIENCY OF DISINFECTANTS IN WATER□
PHR. 761565-70. JULY 1961.

W61-32
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INTERFERENCE ORGANISMS IN WATER SUPPLIES□
IN: PROC. OKLAHOMA WATER, SEWAGE, & IND. WASTES ASSOC. FOR 1960. OKLAHOMA STATE UNIV. (1961.) PP. 157-71.

W61-33
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REMOVAL OF ENTERIC VIRUSES FROM SEWAGE BY ACTIVATED SLUDGE TREATMENT¤
AM. J. PUBLIC HEALTH, 51:1118-29, AUG, 1961.

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A NEW RECORD FOR THE ASIATIC CLAM IN THE UNITED STATES, THE TENNESSEE RIVER¤
NAUTILUS, 74:114-18, JAN, 1961.

W61-35
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TRANS, AM, FISHERIES SOC, 90:394-97, OCT, 1961.

W61-36
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JAWWA, 53:1297-1312, OCT, 1961.

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JWPCF, 33:445-76, 549-84, 681-710, MAY, JUNE, JULY 1961.

W61-38
PORGES R GL MORRIS WW TOWNE
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JWPCF, 33:1260-66, DEC, 1961.

W61-39
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JWPCF, 33:1290-92, DEC, 1961.

W61-40
COOKE WB
THE NATURAL OCCURRENCE OF AUREOBASIDIUM¤
IN: RECENT ADVANCES IN BOTANY, UNIV, TORONTO PRESS, TORONTO, CANADA, 1961, PP, 330-34.

W61-41
COHEN JM GA ROURKE RL WOODWARD
EFFECT OF FISH POISONS ON WATER SUPPLIES. PART 2. ODOR PROBLEMS□
JAWWA. 53:49-62. JAN. 1961. SEE W60-39. W61-42.

W61-42
COHEN JM OH PICKERING RL WOODWARD
W VAN HEUVELEN
EFFECT OF FISH POISONS ON WATER SUPPLIES. PART 3. FIELD STUDY AT DICKINSON□
JAWWA. 53:233-46. FEB. 1961. SEE W60-39. W61-41.

W61-43
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ACUTE TOXICITY OF SOME ORGANIC INSECTICIDES TO THREE SPECIES OF SALMONIDS AND TO THE THREESPINE STICKLEBACK□
TRANS. AM. FISHERIES SOC. 90:264-68. JULY 1961.

W61-44
COMMITTEE ON PUBLIC HEALTH ACTIVITIES BB BERGER ET AL
COLIFORM ORGANISMS AS AN INDEX OF WATER SAFETY. PROGRESS REPORT□
J. SANIT. ENG. DIV., ASCE. 87:(SA6):41-58. PAPER 2986. NOV. 1961.

W61-45
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COMPARISON OF ANALYTICAL PROCEDURES FOR BORON□
JAWWA. 53:1517-22. DEC. 1961.

W61-46
MIDDLETON FM
NEWER CHEMICAL CONTAMINANTS AFFECTING WATER QUALITY□
SANITARIAN. 24:9-13. JULY-AUG. 1961.

W61-47
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MYCOLOGIA. 53:575-99. NOV.-DEC. 1961.

W61-48
LUDZACK FJ RB SCHAFFER
ACTIVATED SLUDGE TREATMENT OF CYANIDE, CYANATE, AND THIOCYANATE□
IN: PROC. 15TH IND. WASTE CONF., LAFAYETTE, IND., MAY 3-5, 1960. ENG. EXT. SER. NO. 106. ENG. BULL., PURDUE UNIV. 45(2):439-60. MAR. 1961. JWPCF. 34:320-41. APR. 1962.

W61-49
COULTER JB T BENDIXEN
SEWAGE TREATMENT PLANTS FOR THE SUBURBAN SEWERAGE SYSTEM.
OFFICIAL BULL. (NORTH DAKOTA WATER AND SEWAGE WORKS CONF.)
29(4):17-20, 22-24, OCT. 1961.

W61-50
HANSON HS
POLLUTED WATERS A CHALLENGE TO P.E.'S.
AM. ENGR. 31:26-28, 42, 46, DEC. 1961.

W61-51
ROBERT A TAFT SANITARY ENGINEERING CENTER
BATHING WATER QUALITY AND HEALTH. III. COASTAL WATER.
SEC. 1961. 134 PP. SEE W53-21.

W61-52
COOKE WB
THE CYPHELLACEOUS FUNGI. A STUDY IN THE POROTHELEACEAE.
SYDOWIA ANN. MYCOL., SER. II. SUPP. 4. 1961. PP. 1-144.

W61-53
KABLER PW HF CLARK NA CLARKE
PATHOGENIC MICROORGANISMS AND WATER-BORNE DISEASE.
IN: PUBLIC HEALTH HAZARDS OF MICROBIAL POLLUTION OF WATER.
PROC. RUDOLFS RESEARCH CONF. RUTGERS STATE UNIV., NEW
BRUNSWICK, N. J. 1961. 9 PP.

W62-02
ROBERT A TAFT SANITARY ENGINEERING CENTER
RESEARCH FOR CLEAN WATER.
TECH. REPT. W62-2. SEC. JAN. 1, 1962. 35 PP.

W62-03
PORGES R EJ STRUZESKI JR
WASTES FROM THE POULTRY PROCESSING INDUSTRY.
TECH. REP. W62-3. SEC. 1962. 40 PP.

W62-04
CHANG SL MA MCCLANAHAN PW KABLER
EFFECT OF BACTERIAL DECOMPOSITION OF HEXADECANOL AND
OCTADECANOL IN MONOLAYER FILMS ON THE SUPPRESSION OF
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IN: RETARDATION OF EVAPORATION BY MONOLAYERS: TRANSPORT
PROCESSES. ACADEMIC PRESS, NEW YORK, N. Y., 1962.
PP. 119-31.

W62-05
CHAMBERS CW CM PROCTOR PW KABLER
THE BACTERICIDAL EFFECT OF LOW CONCENTRATIONS OF SILVER.
JAWWA. 54:1208-16. FEB. 1962.

W62-06
SUBCOMMITTEE ON ORGANIC CHEMICALS OF AWWA COMMITTEE 8930P-STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER FM MIDDLETON, CHAIRMAN
TENTATIVE METHOD FOR CARBON CHLOROFORM EXTRACT (CCE) IN WATER¤
JAWWA. 54:223-27. FEB. 1962.

W62-07
ROBECK GG AR BRYANT RL WOODWARD
INFLUENCE OF ABS ON COLIFORM MOVEMENT THROUGH WATER-SATURATED SANDY SOILS¤
JAWWA. 54:75-82. JAN. 1962.

W62-08
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JWPCF. 34:7-14. JAN. 1962.

W62-09
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SUMMARY REPORT. THE ADVANCED WASTE TREATMENT RESEARCH PROGRAM. JUNE 1960 - DECEMBER 1961¤
TECH. REP. W62-9. SEC. MAY 1962. 65 PP.

W62-10
SAFFERMAN RS ME MORRIS
A METHOD FOR THE ISOLATION AND ENUMERATION OF ACTINOMYCETES RELATED TO WATER SUPPLIES¤
TECH. REP. W62-10. SEC. 1962. 15 PP.

W62-11
JACKSON HW LG WILLIAMS
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TRANS. AM. MICROSCOP. SOC. 81:96-103. JAN. 1962.

W62-12
TSIVOGLOU EC RL O'CONNELL
WASTE GUIDE FOR THE URANIUM MILLING INDUSTRY¤
TECH. REP. W62-12. SEC. 1962. 78 PP.

W62-13
BARTSCH AF EF MCFARREN
FISH POISONING: A PROBLEM IN FOOD TOXICATION¤
PACIFIC SCI. 16:42-56. JAN. 1962.

W62-14
BERG G NA CLARKE PW KABLER
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J. BACTERIOL. 83:556-60. MAR. 1962.

W62-15
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PUBLIC WORKS, 93:127-29, MAY 1962.

W62-16
COOKE WB
THE ROLE OF FUNGI IN ENVIRONMENTAL SANITATION¤
IN: DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY, VOL. 3.
PLENUM PRESS, NEW YORK, N. Y., 1962. PP. 313-18.

W62-17
ROBERT A TAFT SANITARY ENGINEERING CENTER
PROCESS AND WASTE CHARACTERISTICS AT SELECTED URANIUM MILLS¤
TECH. REP. W62-17, SEC, 1962. 94 PP.

W62-18
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JWPCF, 34:295-301, MAR, 1962.

W62-19
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IN: PROC. 16TH IND. WASTE CONF., LAFAYETTE, IND., MAY 2-4, 1961, ENG. EXT. SER. NO. 109, ENG. BULL., PURDUE UNIV. 46(2):540-54. MAR. 1962.

W62-20
COOKE WB
ON THE FLORA OF THE CASCADE MOUNTAINS¤
WASMANN J. BIOL. 20:1-67. SPRING 1962.

W62-21
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INFLUENCE OF OXYGEN CONCENTRATION ON THE GROWTH OF JUVENILE COHO SALMON¤
TRANS. AM. FISHERIES SOC. 91:155-67. APR. 1962.

W62-22
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TRANS. AM. FISHERIES SOC. 91:175-84. APR. 1962.

W62-23
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JWPCF, 34:470-74, MAY 1962.

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TECH. REP. W62-24. SEC. SEPT. 1962. 36 PP.

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JAWWA. 54:751-56. JUNE 1962.

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APPL. MICROBIOL. 10:289-92. JULY 1962.

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MYCOPATHOL. ET MYCOL. APPL. 17:1-43. MAY 1962.

W62-29
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THE FAECAL COLI-AEROGENES FLORA OF SOILS FROM VARIOUS GEOGRAPHICAL AREAS¤
J. APPL. BACTERIOL. 25:87-93. APR. 1962.

W62-30
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HIGH-MOLECULAR-WEIGHT MATERIALS IN TAP WATER¤
JAWWA. 54:959-64. AUG. 1962.

W62-31
MALONEY TE EJ DONOVAN JR EL ROBINSON
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PHYCOLOGIA. 2:1-8. MAY 1962.

W62-32
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JAWWA. 54:291-93. MAR. 1962.

W62-33
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SOAP CHEM. SPECIALTIES. 38:79-81. 124-25. SEPT. 1962.

W62-34
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PRINCIPAL DIATOMS OF MAJOR WATERWAYS OF THE UNITED STATES¤
LIMNOL. AND OCEANOG. 7:365-79. JULY 1962.

W62-35
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OHIO J. SCI. 62:225-44. SEPT. 1962.

W62-36
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JWPCF. 34:920-31. SEPT. 1962.

W62-37
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PHR. 77:456-58. MAY 1962.

W62-38
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JAWWA. 54:1272-74. OCT. 1962.

W62-39
MIDDLETON FM DG STEPHAN
WATER RENOVATION¤
CHEM. ENG. PROGR. 58:63-68. OCT. 1962.

W62-40
BALLINGER DG TA HARTLAGE
POLAROGRAPHIC DETERMINATION OF METALS IN WATER, WASTES AND BIOLOGICAL SAMPLES¤
WATER & SEWAGE WORKS. 109:338-41. SEPT. 1962.

W62-41
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THE GERMICIDAL EFFICIENCY OF SILVER, IODINE AND QUARTERNARY AMMONIUM COMPOUNDS¤
IN: PROC. 3D SANIT. ENG. CONF., URBANA, ILL., JAN. 31-FEB. 1, 1961. UNIV. ILL. ENG. EXP. STA. CIR. 71. UNIV. ILL. BULL. 59(46):29-42. 1962.

W62-42
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PURIFICATION AND SANITARY CONTROL OF WATER (POTABLE AND WASTE)¤
ANN. REV. MICROBIOL. 16:127-40. 1962.

W62-43
SURBER EW DH PICKERING
ACUTE TOXICITY OF ENDOTHAL, DIQUAT, HYAMINE, DALAPON, AND SILVEX TO FISH.
PROGRESSIVE FISH CULTURIST, 24:164-71, OCT, 1962.

W62-44
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CRITERIA FOR UTILIZATION OF PACKAGE PLANTS.
IN: PROC. 11TH SOUTHERN MUNIC. IND. WASTE CONF., CHAPEL HILL, N. C., APR. 19-20, 1962. UNIV. NORTH CAROLINA. CHAPEL HILL, N. C. PP. 63-75.

W62-45
BERGER BB HF CLARK FE DEMARTINI MB ETTINGER WW INGRAM PW KABLER W KATZ FW KITTRELL R PORGES C STRAUB E SURBER CM TARZWELL WW TOWNE EC TSIVOGLOU RL WOODWARD ET AL
A REVIEW OF THE LITERATURE OF 1961 ON WASTEWATER AND WATER POLLUTION CONTROL.
JWPCF, 34:419-58, 525-64, 629-703, MAY, JUNE, JULY 1962.

W62-46
SAYERS WT
THE DETERGENT PROBLEM IN WATER SUPPLIES.
SANITARIAN'S J. ENVIRON. HEALTH, 25:189-93, NOV.-DEC, 1962.

W62-47
PALMER CM
NUISANCE ALGAE IN WATER SUPPLIES OF THE PULP AND PAPER INDUSTRY.
TAPPI, 45:897-900, DEC, 1962.

W62-48
BALLINGER DG RJ LISHKA ME GALES JR
APPLICATION OF SILVER DIETHYLDITHIOCARBAMATE METHOD TO DETERMINATION OF ARSENIC.
JAWWA, 54:1424-28, NOV, 1962.

W62-49
ROBECK GG NA CLARKE KA DOSTAL
EFFECTIVENESS OF WATER TREATMENT PROCESSES IN VIRUS REMOVAL.
JAWWA, 54:1275-92, OCT, 1962.

W62-50
TARZWELL CM
DEVELOPMENT OF WATER QUALITY CRITERIA FOR AQUATIC LIFE.
JWPCF, 34:1178-85, NOV, 1962.

W62-51
PORGES R DH BRACKNEY
INDUSTRIAL WASTE DISPOSAL BY STABILIZATION PONDS¤
IN: PROC. 25TH ANNUAL SHORT COURSE FOR SUPTS. ..., MAR. 15-17, 1962. ENG. EXP. STA. BULL. NO. 68. LOUISIANA STATE UNIV., BATON ROUGE, LA. PP 131-40.

W62-52
CHANG SL PW KABLER
FREE-LIVING NEMATODES IN AEROBIC TREATMENT PLANT EFFLUENT¤
JWPCF. 34:1256-61. DEC. 1962.

W62-53
TARZWELL CM
THE NEED AND VALUE OF WATER QUALITY CRITERIA WITH SPECIAL REFERENCE TO AQUATIC LIFE¤
CAN. FISH CULTURIST. NO. 31, 35-41. OCT. 1962.

W62-54
COOKE WB
SPECIES OF FUSARIUM ISOLATED FROM A WASTE STABILIZATION POND SYSTEM¤
MYCOPATHOL. ET MYCOL. APPL. 18(3):225-33. 1962.

W62-55
MACKENTHUN KM
A REVIEW OF ALGAE, LAKE WEEDS, AND NUTRIENTS¤
JWPCF. 34:1077-85. OCT. 1962.

W62-56
PORGES R
SEWAGE AND INDUSTRIAL WASTE TREATMENT BY STABILIZATION PONDS¤
ENVIRON. HEALTH (INDIA). 4(4):269-74. OCT. 1962.

W62-57
KABLER PW
REDUCTION OF PATHOGENIC MICRO-ORGANISMS BY SEWAGE TREATMENT¤
ENVIRON. HEALTH (INDIA). 4(4):258-68. OCT. 1962.

W63-02
PORGES R
DESIGN CRITERIA FOR WASTE STABILIZATION PONDS¤
PUBLIC WORKS. 94:99, 144, 146. JAN. 1963.

W63-03
O'CONNELL RL CM WALTER
HYDRAULIC MODEL TESTS OF ESTUARIAL WASTE DISPERSION¤
J. SANIT. ENG. DIV., ASCE. 89:(SA1):51-65. PAPER 3394. JAN. 1963.

W63-04
TSIVOGLOU EC
RESEARCH FOR THE CONTROL OF RADIOACTIVE POLLUTANTS¤
JWPCF. 35:242-59. FEB. 1963.

W63-05
MCDERMOTT GN WA MOORE MA POST
MB ETTINGER
EFFECTS OF COPPER ON AEROBIC BIOLOGICAL SEWAGE TREATMENT¤
JWPCF. 35:227-41. FEB. 1963.

W63-06
ROMANO AH RS SAFFERMAN
STUDIES ON ACTINOMYCETES AND THEIR ODORS¤
JAWWA. 55:169-76. FEB. 1963.

W63-07
BALLINGER DG
POLAROGRAPHIC METHODS FOR WATER AND WASTES¤
JWPCF. 35:116-22. JAN. 1963.

W63-08
BERG G EK HARRIS SL CHANG
KA BUSCH
QUANTITATION OF VIRUSES BY THE PLAQUE TECHNIQUE¤
J. BACTERIOL. 85:691-700. MAR. 1963.

W63-09
MALONEY TE
RESEARCH ON ALGAL ODOR¤
JAWWA. 55:481-86. APR. 1963.

W63-10
SAFFERMAN RS ME MORRIS
ALGAL VIRUS: ISOLATION¤
SCIENCE. 140(NO. 3567):1679-80. MAY 10. 1963.

W63-11
TARZWELL CM
AUGMENTATION OF WATER RESOURCES THROUGH POLLUTION ABATEMENT¤
OHIO J. SCI. 63:75-82. MAR. 1963.

W63-12
SURBER EW TO THATCHER
LABORATORY STUDIES ON THE EFFECTS OF ALKYL BENZENE SULFONATE (ABS) ON AQUATIC INVERTEBRATES¤
TRANS. AM. FISHERIES SOC. 92:152-60. APR. 1963.

W63-13
PORGES R
INDUSTRIAL WASTE STABILIZATION PONDS IN THE UNITED STATES¤
JWPCF. 35:456-68. APR. 1963.

W63-14
DAVIS GE J FOSTER CE WARREN
P DOUDOROFF
THE INFLUENCE OF OXYGEN CONCENTRATION ON THE SWIMMING PERFORMANCE OF JUVENILE PACIFIC SALMON AT VARIOUS TEMPERATURES¤
TRANS. AM. FISHERIES SOC. 92:111-24. APR. 1963.

W63-15
PORGES R GL MORRIS
SMALL EXTENDED-AERATION SEWAGE TREATMENT PLANTS¤
SANITARIAN'S J. ENVIRON. HEALTH. 25:406-12. MAY-JUNE 1963.

W63-16
TARZWELL CM
SANITATION LIMNOLOGY¤
IN: LIMNOLOGY IN NORTH AMERICA. UNIV. WISCONSIN PRESS. MADISON. WIS.. 1963. CH. 24. PP. 653-66.

W63-17
COOKE WB GS MATSUURA
A STUDY OF YEAST POPULATIONS IN A WASTE STABILIZATION POND SYSTEM¤
PROTOPLASMA. 57(1-4):163-87. 1963.

W63-18
COHEN JM
TASTE AND ODOR OF ABS IN WATER¤
JAWWA. 55:587-91. MAY 1963.

W63-19
WEAVER L AW HOADLEY S BAKER
RADIOACTIVITY IN SURFACE WATERS OF THE UNITED STATES. 1957-1962¤
RADIOLOGICAL HEALTH DATA. 4:306-16. JUNE 1963.

W63-20
TSIVOGLOU EC GW BURKE JR
RADIOACTIVITY STANDARDS FOR WATER¤
JAWWA. 55:668-76. JUNE 1963.

W63-21
HENDERSON C QH PICKERING
USE OF FISH IN THE DETECTION OF CONTAMINANTS IN WATER SUPPLIES¤
JAWWA. 55:715-20. JUNE 1963.

W63-22
MCDERMOTT GN WA MOORE MA POST
MB ETTINGER
COPPER AND ANAEROBIC SLUDGE DIGESTION¤
JWPCF. 35:655-62. MAY 1963.

W63-23
KEUP L WB HORNING WM INGRAM
EXTENSION OF RANGE OF ASIATIC CLAM TO CINCINNATI REACH OF THE OHIO RIVER¤
NAUTILUS. 77:18-21. JULY 1963.

W63-24
LISHKA RJ FS KELSO HP KRAMER
EVALUATION OF METHODS FOR DETERMINATION OF MINERALS IN WATER¤
JAWWA. 55:647-56. MAY 1963.

W63-25
BENDIXEN TW
WILL PUBLIC HEALTH STANDARDS FIT RURAL WATER SUPPLIES¤
AGR. ENG. 44:366-67. JULY 1963.

W63-26
ROSEN AA RT SKEEL MB ETTINGER
RELATIONSHIP OF RIVER WATER ODOR TO SPECIFIC ORGANIC CONTAMINANTS¤
JWPCF. 35:777-82. JUNE 1963.

W63-27
CHANG SL HE HALL
RESISTANCE OF FREE-LIVING NEMATODES TO STAPHYLOCOCCAL ENTEROTOXIN¤
APPL. MICROBIOL. 11:365-67. JULY 1963.

W63-28
BREIDENBACH AW JJ LICHTENBERG
DDT AND DIELDRIN IN RIVERS: A REPORT OF THE NATIONAL WATER QUALITY NETWORK¤
SCIENCE. 141(NO. 3584):899-901. SEPT. 6, 1963.

W63-29
COHEN JB RL O'CONNELL
THE ANALOG COMPUTER AS AN AID TO STREAM SELF-PURIFICATION COMPUTATIONS¤
JWPCF. 35:951-62. AUG. 1963.

W63-30
HUBSCHMAN JH
DEVELOPMENT AND FUNCTION OF NEUROSECRETORY SITES IN THE EYESTALKS OF LARVAL PALAEMONETES (DECAPODA;NATANTIA)¤
BIOL. BULL. 125:96-113. AUG. 1963.

W63-31
ANDERSON JB EC TSIVOGLOU SD SHEARER
EFFECTS OF URANIUM MILL WASTES ON BIOLOGICAL FAUNA OF THE ANIMAS RIVER (COLORADO-NEW MEXICO)¤
IN: RADIOECOLOGY. PROC. 1ST NATL. SYMPOSIUM ON RADIOECOLOGY, FT. COLLINS, COLO., SEPT. 10-15, 1961. REINHOLD, AND AM. INST. BIOL. SCI., 1963. PP. 373-83.

W63-32
BERGER BB
THE GOAL OF RESEARCH: BETTER AND SAFER WATER¤
WATER WORKS ENG. 116:340-42, 411-13, MAY 1963.

W63-33
COOKE WB
THIRD SUPPLEMENT TO THE FLORA OF MOUNT SHASTA¤
AM. MIDLAND NATURALIST. 70:386-95, OCT. 1963.

W63-34
COOKE WB GS MATSUURA
REMOVAL OF ABS FROM SOLUTIONS BY A COMMON FUNGUS OF SEWAGE¤
MYCOPATHOL. ET MYCOL. APPL. 19(4):287-95. 1963.

W63-35
WOODWARD RL
REVIEW OF THE RELATION OF WATER QUALITY AND SIMPLE GOITER¤
JAWWA. 55:887-96. JULY 1963.

W63-36
WOODWARD RL
REVIEW OF THE BACTERICIDAL EFFECTIVENESS OF SILVER¤
JAWWA. 55:881-86. JULY 1963.

W63-37
ENGLISH JN EW SURBER GN MCDERMOTT
POLLUTIONAL EFFECTS OF OUTBOARD MOTOR EXHAUST--FIELD STUDIES¤
JWPCF. 35:1121-32. SEPT. 1963.

W63-38
COOKE WB
FUNGI ASSOCIATED WITH SPENT SULFITE LIQUOR DISPOSAL IN A NATURAL SAND BED¤
TAPPI. 46:573-78. OCT. 1963.

W63-39
BENDIXEN TW
FIELD PERCOLATION TESTS FOR SANITARY ENGINEERING APPLICATION¤
IN: SYMPOSIUM ON FIELD TESTS AND MEASUREMENTS FOR SOILS ... SPEC. TECH. PUBL. NO. 322. AM. SOC. TESTING MATERIALS. PHILADELPHIA, PA., (1963. C 1962). PP. 3-7.

W63-40
DOBBS RA RT WILLIAMS
ELIMINATION OF CHLORIDE INTERFERENCE IN THE CHEMICAL OXYGEN DEMAND TEST¤
ANAL. CHEM. 35:1064-67. JULY 1963.

W63-41
SILVER SJ CE WARREN P DOUDOROFF
DISSOLVED OXYGEN REQUIREMENTS OF DEVELOPING STEELHEAD TROUT AND CHINOOK SALMON EMBRYOS AT DIFFERENT WATER VELOCITIES¤
TRANS. AM. FISHERIES SOC. 92:327-43. OCT. 1963.

W63-42
PALMER CM
THE EFFECT OF POLLUTION ON RIVER ALGAE¤
ANN. N. Y. ACAD. SCI. 108:389-95. JUNE 29. 1963.

W63-43
LEMKE AE DI MOUNT
SOME EFFECTS OF ALKYL BENZENE SULFONATE ON THE BLUEGILL. LEPOMIS MACROCHIRUS¤
TRANS. AM. FISHERIES SOC. 92:372-78. OCT. 1963.

W63-44
ENGLISH JN GN MCDERMOTT C HENDERSON
POLLUTIONAL EFFECTS OF OUTBOARD MOTOR EXHAUST--LABORATORY STUDIES¤
JWPCF. 35:923-31. JULY 1963.

W63-45
INGRAM WM KM MACKENTHUN
ANIMAL INFESTATIONS IN DISTRIBUTION SYSTEMS¤
IN: PROC. 5TH SANIT. ENG. CONF., URBANA, ILL., JAN. 29-30. 1963. UNIV. ILL. ENG. EXP. STA. CIR. NO. 81. UNIV. ILL. BULL. 61(22):79-84. (1963.)

W63-46
SYMONS JM
SIMPLE, CONTINUOUS-FLOW, LOW AND VARIABLE RATE PUMP¤
JWPCF. 35:1480-85. NOV. 1963.

W63-47
TARZWELL CM
HAZARDS OF PESTICIDES TO FISHES AND THE AQUATIC ENVIRONMENT¤
IN: THE USE AND EFFECTS OF PESTICIDES. PROC. OF SYMPOSIUM. ALBANY, N. Y., SEPT. 23. 1963. N. Y. STATE JOINT LEGIS. COMM. ON NAT. RESOURCES. ALBANY. N. Y. PP. 30-40.

W63-48
ROBECK GG JM COHEN WT SAYERS
RL WOODWARD
DEGRADATION OF ABS AND OTHER ORGANICS IN UNSATURATED SOILS¤
JWPCF. 35:1225-36. OCT. 1963.

W63-49
KITTRELL FW SA FURFARI
OBSERVATIONS OF COLIFORM BACTERIA IN STREAMS□
JWPCF, 35:1361-85, NOV, 1963.

W63-50
CULP GL
DIRECT RECIRCULATION OF HIGH-RATE TRICKLING FILTER EFFLUENT□
JWPCF, 35:742-47, JUNE 1963.

W63-51
ETTINGER MB AA ROSEN PJ COFFEY
USE OF SPECIFIC ORGANIC ANALYSIS IN THE EVALUATION OF RIVER POLLUTION□
TRIBUNE DU CEBEDEAU, CENTRE BELGE ETUDE DOC, EAUX, 16(237-238):413-17, AUG,-SEPT, 1963.

W63-52
STEPHAN DG
POSSIBLE WATER RENOVATION PROCESSES□
POLLUTION CONTROL ENGINEERING, CHEM, ENG, PROGR, SYMPOSIUM SER, NO, 45, 59:34-44, A,I,CH,E,, NEW YORK, N, Y, 1963,

W63-53
STEPHAN DG
TECHNOLOGICAL DIFFERENCES BETWEEN WATER RENOVATION AND DESALINATION□
POLLUTION CONTROL ENGINEERING, CHEM, ENG, PROGR, SYMPOSIUM SER, NO, 45, 59:53-54, A,I,CH,E,, NEW YORK, N, Y, 1963,

W63-54
MIDDLETON FM
ADVANCED WASTE TREATMENT--A CHALLENGE TO THE COMMUNITY□
POLLUTION CONTROL ENGINEERING, CHEM, ENG, PROGR, SYMPOSIUM SER, NO, 45, 59:52, A,I,CH,E,, NEW YORK, N, Y, 1963,

W63-55
MIDDLETON FM
THE PROBLEM OF REFRACTORY SUBSTANCES IN WATER AND WASTES□
POLLUTION CONTROL ENGINEERING, CHEM, ENG, PROGR, SYMPOSIUM SER, NO, 45, 59:26-33, A,I,CH,E,, NEW YORK, N, Y, 1963,

W63-56
HARRIS EK
A NEW STATISTICAL APPROACH TO THE ONE-DIMENSIONAL DIFFUSION MODEL□
INTERN, J, AIR WATER POLLUTION, 7:799-812, OCT, 1963,

W63-57
STEPHAN DG PW KABLER CM TARZWELL
WATER RENOVATION, WHAT IT MEANS TO YOU, BACTERIA CAN BE A NUISANCE, AND AQUATIC LIFE NEEDS PROTECTION□
CHEM, ENG, PROGR, 59:19, 23-25, 27-28, NOV, 1963,

W63-58
LUDZACK FJ MB ETTINGER
ESTIMATING BIODEGRADABILITY AND TREATABILITY OF ORGANIC WATER POLLUTANTS¤
BIOTECHNOL. AND BIOENG. 5:309-30. DEC. 1963.

W63-59
KABLER PW SL CHANG NA CLARKE HF CLARK
PATHOGENTC BACTERIA AND VIRUSES IN WATER SUPPLIES¤
IN: PROC. 5TH SANIT. ENG. CONF., URBANA, ILL., JAN. 29-30. 1963. UNIV. ILL. ENG. EXP. STA. CIR. NO. 81. UNIV. ILL. BULL. 61(22):72-78.

W63-60
PORGES R KM MACKENTHUN
WASTE STABILIZATION PONDS: USE, FUNCTION, AND BIOTA¤
BIOTECHNOL. AND BIOENG. 5:255-73. DEC. 1963.

W63-61
CHAMBERS CW HH TABAK PW KABLER
DEGRADATION OF AROMATIC COMPOUNDS BY PHENOL-ADAPTED BACTERIA¤
JWPCF. 35:1517-28. DEC. 1963.

W63-62
WALTON G GL CULP
CHLORINE DISINFECTION IN PRIMARY SEWAGE TREATMENT. A REVIEW OF THE LITERATURE. PARTS 1 THROUGH 4¤
WATER AND SEWAGE WORKS. 110:415, 438-39, 111:37-38, 80-81. NOV., DEC. 1963, JAN., FEB. 1964.

W63-63
COOKE WB G MATSUURA
PHYSIOLOGICAL STUDIES IN THE BLACK YEASTS¤
MYCOPATHOL. ET MYCOL. APPL. 21(3/4):225-71. 1963.

W63-64
LUDZACK FJ HL KRIEGER MB ETTINGER
INTERACTIONS OF WASTE FEED, ACTIVATED SLUDGE, AND OXYGEN, AS TRACED BY RADIOACTIVE CARBON¤
IN: PROC. 17TH IND. WASTE CONF., LAFAYETTE, IND., MAY 1-3, 1962. ENG. EXT. SER. NO. 112. ENG. BULL., PURDUE UNIV. 47(2):295-309. MAR. 1963. JWPCF. 36:782-88. JUNE 1964.

W63-65
MIDDLETON FM HH PETTIT AA ROSEN
THE MEGA SAMPLER FOR EXTENSIVE INVESTIGATION OF ORGANIC POLLUTANTS IN WATER¤
IN: PROC. 17TH IND. WASTE CONF., LAFAYETTE, IND., MAY 1-3, 1962. ENG. EXT. SER. NO. 112. ENG. BULL., PURDUE UNIV. 47(2):454-60. MAR. 1963.

W63-66
MCDERMOTT GN EF BARTH V SALOTTO
MB ETTINGER
ZINC IN RELATION TO ACTIVATED SLUDGE AND ANAEROBIC DIGESTION PROCESSES¤
IN: PROC. 17TH IND. WASTE CONF., LAFAYETTE, IND., MAY 1-3, 1962, ENG. EXT. SER. NO. 112. ENG. BULL., PURDUE UNIV. 47(2):461-75. MAR. 1963.

W63-67
PORGES R EJ STRUZESKI JR
CHARACTERISTICS AND TREATMENT OF POULTRY PROCESSING WASTES¤
IN: PROC. 17TH IND. WASTE CONF., LAFAYETTE, IND., MAY 1-3, 1962, ENG. EXT. SER. NO. 112. ENG. BULL., PURDUE UNIV. 47(2):583-601. MAR. 1963.

W63-68
MCDERMOTT GN
WASTE CHARACTERIZATION CONCEPTS: PREDICTING POTENTIAL DAMAGES AND TREATABILITY OF WASTE WATER¤
PRESENTED AT: 16TH IND. WASTE CONF., MAY 2-4, 1961.
PUBLISHED IN: PROC. 17TH IND. WASTE CONF. ENG. EXT. SER. NO. 112. ENG. BULL., PURDUE UNIV. 47(2):803-15. MAR. 1963.

W63-69
ETTINGER MB
SOCIOLOGICAL AND TECHNOLOGICAL FACTORS IN DEVELOPING WATER QUALITY CRITERIA¤
PHR. 78:398-402. MAY 1963.

W63-70
BERGER BB HF CLARK FE DEMARTINI MB ETTINGER WM INGRAM
PW KABLER M KATZ FW KITTRELL C STRAUB E SURBER
CM TARZWELL EC TSIVOGLOU RL WOODWARD ET AL
A REVIEW OF THE LITERATURE OF 1962 ON WASTEWATER AND WATER POLLUTION CONTROL¤
JWPCF. 35:553-86, 687-727, 819-76. MAY, JUNE, JULY 1963.

W64-02
CLARKE NA PW KABLER
HUMAN ENTERIC VIRUSES IN SEWAGE¤
HEALTH LAB. SCI. 1:44-50. JAN. 1964.

W64-03
KABLER PW HF CLARK EE GELDREICH
SANITARY SIGNIFICANCE OF COLIFORM AND FECAL COLIFORM ORGANISMS IN SURFACE WATER¤
PHR. 79:58-60. JAN. 1964.

W64-04
KELSO FS JM MATTHEWS HP KRAMER
ION-EXCHANGE METHOD FOR DETERMINATION OF FLUORIDE IN POTABLE WATERS¤
ANAL. CHEM. 36:577-79. MAR. 1964.

W64-05
GELDREICH EE BA KENNER PW KABLER
OCCURRENCE OF COLIFORMS, FECAL COLIFORMS, AND STREPTOCOCCI ON VEGETATION AND INSECTS¤
APPL. MICROBIOL. 12:63-69. JAN. 1964.

W64-06
SHEARER SD JR GF LEE
LEACHABILITY OF RADIUM-226 FROM URANIUM MILL SOLIDS AND RIVER SEDIMENTS¤
HEALTH PHYSICS. 10:217-27. APR. 1964.

W64-07
MOUNT DI
ADDITIONAL INFORMATION ON A SYSTEM FOR CONTROLLING THE DISSOLVED OXYGEN CONTENT OF WATER¤
TRANS. AM. FISHERIES SOC. 93:100-03. JAN. 1964.

W64-08
ROBECK GG KA DOSTAL RL WOODWARD
STUDIES OF MODIFICATIONS IN WATER FILTRATION¤
JAWWA. 56:198-213. FEB. 1964.

W64-09
TABAK HH CW CHAMBERS PW KABLER
MICROBIAL METABOLISM OF AROMATIC COMPOUNDS. I. DECOMPOSITION OF PHENOLIC COMPOUNDS AND AROMATIC HYDROCARBONS BY PHENOL-ADAPTED BACTERIA¤
J. BACTERIOL. 87:910-19. APR. 1964.

W64-10
WOODWARD RL HE STOKINGER DL BIRMINGHAM
HEALTH EFFECTS OF DETERGENTS IN WATER¤
ARCH. ENVIRON. HEALTH. 8:584-88. APR. 1964.

W64-11
WOODWARD RL KA DOSTAL GG ROBECK
GRANULAR-ACTIVATED-CARBON BEDS FOR ODOR REMOVAL¤
JAWWA. 56:287-95. MAR. 1964.

W64-12
BERG G SL CHANG EK HARRIS
DEVITALIZATION OF MICROORGANISMS BY IODINE. I. DYNAMICS OF THE DEVITALIZATION OF ENTEROVIRUSES BY ELEMENTAL IODINE¤
VIROLOGY. 21:469-81. APR. 1964.

W64-13
MOUNT DI
AN AUTOPSY TECHNIQUE FOR ZINC-CAUSED FISH MORTALITY¤
TRANS. AM. FISHERIES SOC. 93:174-82. APR. 1964.

W64-14
WOODWARD RL
RELATION OF RAW-WATER QUALITY TO TREATMENT PLANT DESIGN¤
JAWWA. 56:432-40. APR. 1964.

W64-15
INGRAM WM L KEUP C HENDERSON
ASIATIC CLAMS AT PARKER, ARIZONA¤
NAUTILUS. 77:121-24. APR. 1964.

W64-16
GAUDY AF JR M STEIN MB ETTINGER
TJ POWERS CN SAWYER JH SVORE
SYMPOSIUM ON JOINT VS. SEPARATE TREATMENT OF MUNICIPAL AND INDUSTRIAL WASTES¤
JWPCF. 36:945-61. MAR. 1964.

W64-17
SCHNEIDER IR TO DIENER RS SAFFERMAN
BLUE-GREEN ALGAL VIRUS LPP-1: PURIFICATION AND PARTIAL CHARACTERIZATION¤
SCIENCE 144(NO.3622):1127-30. MAY 29, 1964.

W64-18
CHAMBERS CW PW KABLER
BIODEGRADABILITY OF PHENOLS AS RELATED TO CHEMICAL STRUCTURE¤
IN: DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY. VOL. 5. PLENUM PRESS. NEW YORK. N. Y., 1964. PP. 85-93.

W64-19
BERG G
THE VIRUS HAZARD IN WATER SUPPLIES¤
J. NEW ENGL. WATER WORKS ASSOC. 78:79-104. JUNE 1964.

W64-20
PORGES R
PRINCIPLES AND PRACTICES OF AEROBIC TREATMENT IN POULTRY WASTE DISPOSAL. AEROBIC STABILIZATION PONDS¤
IN: PROC. 2D NATL. SYMPOSIUM ON POULTRY INDUSTRY WASTE MANAGEMENT. LINCOLN. NEB., MAY 19-20, 1964. PP. 23-43.

W64-21
WILLIAMS LG
RELATIVE STRONTIUM AND CALCIUM UPTAKE BY GREEN ALGAE¤
SCIENCE. 146(NO.3650):1488. DEC. 11, 1964.

W64-22
MCCALLUM GE H STIERLI
HOW AUTOMATION PLAYS A PART IN WATER-QUALITY SURVEILLANCE□
WATER WORKS WASTES ENG. 1:68-70. MAY 1964.

W64-23
WEIBEL SR RJ ANDERSON RL WOODWARD
URBAN LAND RUNOFF AS A FACTOR IN STREAM POLLUTION□
JWPCF. 36:914-24. JULY 1964.

W64-24
LEWIS RF
BIOCHEMISTRY OF THE CELL WALL OF NITROSOMONAS EUROPAEA□
BIOCHIM. ET BIOPHYS. ACTA. 83:237-39. 1964.

W64-25
COOKE WB R POMERLEAU
IX INTERNATIONAL BOTANICAL CONGRESS -- FIELD TRIP
NO. 16 -- FUNGI□
MYCOLOGIA. 56(4):607-18. JULY-AUG. 1964.

W64-26
COOKE WB JL LOWE
THE 1955 MICHIGAN FORAY□
MYCOLOGIA. 56(4):602-07. JULY-AUG. 1964.

W64-27
POMERLEAU R WB COOKE
IX INTERNATIONAL BOTANICAL CONGRESS -- FIELD TRIP
NO. 22 -- QUEBEC FUNGI□
MYCOLOGIA. 56(4):618-26. JULY-AUG. 1964.

W64-28
CLARK HF PW KABLER
REEVALUATION OF THE SIGNIFICANCE OF THE COLIFORM BACTERIA□
JAWWA. 56:931-36. JULY 1964.

W64-29
SAFFERMAN RS ME MORRIS
GROWTH CHARACTERISTICS OF THE BLUE-GREEN ALGAL VIRUS LPP-1□
J. BACTERIOL. 88:771-75. SEPT. 1964.

W64-30
WARREN CE JH WALES GE DAVIS
P DOUDOROFF
TROUT PRODUCTION IN AN EXPERIMENTAL STREAM ENRICHED WITH
SUCROSE□
J. WILDLIFE MANAGEMENT. 28:617-60. OCT. 1964.

W64-31
PALMER CM
ALGAE IN WATER SUPPLIES OF THE UNITED STATES¤
IN: ALGAE AND MAN. D. F. JACKSON. ED. PLENUM PRESS. NEW YORK. N. Y.. 1964. CH. 12. PP. 239-61.

W64-32
LEMKE AE
A NEW DESIGN FOR CONSTANT-FLOW TEST CHAMBERS¤
PROGRESSIVE FISH CULTURIST. 26(3):136-38. JULY 1964.

W64-33
WEIBEL SR; FR DIXON; RB WEIDNER; LJ MCCABE
WATERBORNE-DISEASE OUTBREAKS. 1946-60¤
JAWWA. 56:947-58. AUG. 1964.

W64-34
DIXON FR; LJ MCCABE
HEALTH ASPECTS OF WASTEWATER TREATMENT¤
JWPCF 36:984-89. AUG. 1964.

W64-35
ROBECK GG; TW BENDIXEN; WA SCHWARTZ; RL WOODWARD
FACTORS INFLUENCING THE DESIGN AND OPERATION OF SOIL SYSTEMS FOR WASTE TREATMENT¤
JWPCF. 36:971-83. AUG. 1964.

W64-36
CASTELLI JA; RL BOOTH
LOW-FLOW LIQUID METER¤
JAWWA. 56:1243-44. SEPT. 1964.

W64-37
SHUMWAY DL; CE WARREN; P DOUDOROFF
INFLUENCE OF OXYGEN CONCENTRATION AND WATER MOVEMENT ON THE GROWTH OF STEELHEAD TROUT AND COHO SALMON EMBRYOS¤
TRANS. AM. FISHERIES SOC. 93(4):342-56. OCT. 1964.

W64-38
KEUP L; J BAYLESS
FISH DISTRIBUTION AT VARYING SALINITIES IN NEUSE RIVER BASIN. NORTH CAROLINA¤
CHESAPEAKE SCI. 5(3):119-23. FALL 1964.

W64-39
GECKLER JR; TA WANDSTRAT
UPTAKE AND RETENTION OF RHODAMINE B BY QUAHOG CLAMS. MERCENARIA MERCENARIA¤
CHESAPEAKE SCI. 5(3)1134-37. FALL 1964.

W64-40
PORGES R
DISSOLVED OXYGEN DETERMINATIONS FOR FIELD SURVEYS¤
JWPCF. 36:1247-55. OCT. 1964.

W64-41
SAFFERMAN RS ME MORRIS
CONTROL OF ALGAE WITH VIRUSES¤
JAWWA. 56:1217-24. SEPT. 1964.

W64-42
MIDDLETON FM
ADVANCED TREATMENT OF WASTEWATERS FOR RE-USE¤
WATER & SEWAGE WORKS. 111:401-10. SEPT. 1964.

W64-43
HORNING WB L KEUP
DECLINE OF ASIATIC CLAM IN OHIO RIVER¤
NAUTILUS. 78(1):29. JULY 1964.

W64-44
BERGER BB RL BUNCH HF CLARK FE DEMARTINI MB ETTINGER
WM INGRAM PW KABLER M KATZ FW KITTRELL R PORGES
C STRAUB JM SYMONS EC TSIVOGLOU ET AL
A REVIEW OF THE LITERATURE OF 1963 ON WASTEWATER AND WATER POLLUTION CONTROL¤
JWPCF. 36:535-72, 659-711, 791-863. MAY, JUNE, JULY 1964.

W64-45
GELDREICH EE HF CLARK CB HUFF
A STUDY OF POLLUTION INDICATORS IN A WASTE STABILIZATION POND¤
JWPCF. 36:1372-79. NOV. 1964. SEE ALSO: BACTERIOL. PROC. 1961. SOC. AM. BACTERIOL.. ABSTR. 61ST ANNUAL MEETING. APR. 23-27, 1961. P. 59.

W64-46
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HUMAN ENTERIC VIRUSES IN WATER: SOURCE, SURVIVAL AND REMOVABILITY¤
IN: INTERN. CONF. WATER POLLUTION RESEARCH. LONDON. ENGL.. SEPT. 1962. PERGAMON PRESS. NEW YORK. N. Y. 1964. PP. 523-42.

W64-47
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WATER QUALITY DEPRECIATION BY MUNICIPAL USE¤
JWPCF. 36:1411-14. NOV. 1964.

W64-48
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JAWWA. 56:1533-36. DEC. 1964.

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POSSIBLE RELATIONSHIPS BETWEEN PLANKTON-DIATOM SPECIES NUMBERS AND WATER-QUALITY ESTIMATES¤
ECOLOGY. 45(4):809-23. AUTUMN 1964.

W64-50
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ASIATIC CLAM INFESTATION AT CHARLESTON, WEST VIRGINIA¤
NAUTILUS. 78(1):28. JULY 1964.

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METHODS FOR REMOVING DETERGENTS FROM WASTE WATERS¤
J. AM. OIL CHEMISTS' SOC. 41:813-15. DEC. 1964.

W64-52
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AN ECONOMIC BALANCE TO CONTROL OF STREAM POLLUTION¤
IN: PROC. 18TH IND. WASTE CONF., LAFAYETTE, IND.,
APR. 30-MAY 2, 1963. ENG. EXT. SER. NO. 115. ENG. BULL.,
PURDUE UNIV. 48(3):117-22. MAY 1964.

W64-53
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IN: PROC. 18TH IND. WASTE CONF., LAFAYETTE, IND.,
APR. 30-MAY 2, 1963. ENG. EXT. SER. NO. 115. ENG. BULL.,
PURDUE UNIV. 48(3):278-82. MAY 1964.

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IN: PROC. 18TH IND. WASTE CONF., LAFAYETTE, IND.,
APR. 30-MAY 2, 1963. ENG. EXT. SER. NO. 115. ENG. BULL.,
PURDUE UNIV. 48(3):331-47. MAY 1964.

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IN: PROC. 18TH IND. WASTE CONF., LAFAYETTE, IND.,
APR. 30-MAY 2, 1963. ENG. EXT. SER. NO. 115. ENG. BULL.,
PURDUE UNIV. 48(3):498-514. MAY 1964.

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EFFECTS OF A MIXTURE OF HEAVY METALS ON SEWAGE TREATMENT PROCESSES¤
IN: PROC. 18TH IND. WASTE CONF., LAFAYETTE, IND., APR. 30-MAY 2, 1963. ENG. EXT. SER. NO. 115. ENG. BULL., PURDUE UNIV. 48(3):616-35. MAY 1964.

W64-57
CHAMBERS CW NA CLARKE
HEALTH ASPECTS OF POULTRY WASTE DISPOSAL¤
IN: 2D NATL. SYMPOSIUM ON POULTRY INDUSTRY WASTE MANAGEMENT, UNIV. NEBRASKA, LINCOLN, NEB., MAY 19-20, 1964. PP. 193-212.

W64-58
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BACTERIOLOGIC EXAMINATION (OF WATER)¤
IN: SIMPLIFIED PROCEDURES FOR WATER EXAMINATION, PART II, AWWA MANUAL M12. AM. WATER WORKS ASSOC., NEW YORK, N.Y., 1964. PP. 66-86.

W64-59
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BIOLOGIC EXAMINATION (OF WATER)¤
IN: SIMPLIFIED PROCEDURES FOR WATER EXAMINATION, PART III, AWWA MANUAL M12. AM. WATER WORKS ASSOC., NEW YORK, N.Y., 1964. PP. 87-103.

W65-02
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HEALTH PHYSICS. 11:41-46. JAN. 1965.

W65-03
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CHEM. ENG. 72:73-78. JAN. 4, 1965.

W65-04
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JAWWA. 57:3-9. JAN. 1965.

W65-05
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AM. J. BOTANY. 52:26-34. JAN. 1965.

W65-06
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REVIEW BY P. DOUDOROFF OF "THE BIOLOGY OF POLLUTED WATERS," BY H. B. N. HYNES□
LIVERPOOL UNIV. PRESS, LIVERPOOL, ENGL., 1963. 202 PP.
J. AM. WILDLIFE MANAGEMENT. 29:225-26. JAN. 1965.

W65-07
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GN MCDERMOTT MB ETTINGER BV SALOTTO
SUMMARY REPORT ON THE EFFECTS OF HEAVY METALS ON THE BIOLOGICAL TREATMENT PROCESSES□
JWPCF. 37:86-96. JAN. 1965.

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JAWWA. 57:51-75. JAN. 1965.

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JAWWA. 57:215-20. FEB. 1965.

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ARCH. ENVIRON. HEALTH. 10:827-30. JUNE 1965.

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THE 1960 LOUISIANA FORAY□
MYCOLOGIA. 57(3):478-83. MAY-JUNE 1965.

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THE GROWTH OF YEASTS AT 37 C□
CIFERRI MEMORIAL VOLUME OF MYCOPATHOL. ET MYCOL. APPL. 25:195-200. 1965.

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JAWWA. 57:663-74. MAY 1965.

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JAWWA. 57:453-57. APR. 1965.

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JAWWA. 57:208-14. FEB. 1965.

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JAWWA. 57:150-56. FEB. 1965.

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PRESENTED AT ASCE WATER RESOURCES ENG. CONF., MOBILE, ALA., MAR. 8-12, 1965. CONF. PREPRINT 153. 43 PP.

W65-20
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ACIDIC COMPONENTS OF SEWAGE EFFLUENT AND RIVER WATER¤
JWPCF. 37:410-15. MAR. 1965.

W65-21
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J PHYCOLOGY. 1(1):39-40. 1965.

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JAWWA. 57:181-99. FEB. 1965.

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JAWWA. 57:500-04. APR. 1965.

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JWPCF. 37:77-85. JAN. 1965.

W65-25
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THE TOXICITY OF SYNTHETIC PESTICIDES TO AQUATIC ORGANISMS AND SUGGESTIONS FOR MEETING THE PROBLEM¤
IN: ECOLOGY AND THE INDUSTRIAL SOCIETY. BRITISH ECOLOGICAL SOCIETY SYMPOSIUM. SWANSEA. SOUTH WALES. APR. 13-14. 1964. BLACKWELL SCI. PUBL.. OXFORD. ENG.. 1965. PP. 197-218.

W65-26
MCDERMOTT GN MA POST BN JACKSON
MB ETTINGER
NICKEL IN RELATION TO ACTIVATED SLUDGE AND ANAEROBIC DIGESTION PROCESSES¤
JWPCF. 37:163-77. FEB. 1965.

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CHLORINATED HYDROCARBON PESTICIDES IN MAJOR U.S. RIVER BASINS¤
PHR. 80:481-93. JUNE 1965.

W65-28
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DIE VIRUSUBERTRAGUNG AUF DEM WASSERWEG¤
ARCH. HYG. U. BAKTERIOL. 149(3/4):310-35. 1965.

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9WP-01
COOKE WB
A LABORATORY GUIDE TO FUNGI IN POLLUTED WATERS. SEWAGE. AND SEWAGE TREATMENT SYSTEMS. THEIR IDENTIFICATION AND CULTURE¤
PHS PUBL. NO. 999-WP-1. OCT. 1963. 132 PP.

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GECKLER JR KM MACKENTHUN WM INGRAM
GLOSSARY OF COMMONLY USED BIOLOGICAL AND RELATED TERMS IN WATER AND WASTE WATER CONTROL¤
PHS PUBL. NO. 999-WP-2. JULY 1963. 22 PP.

9WP-03
KOENIG L
ULTIMATE DISPOSAL OF ADVANCED-TREATMENT WASTE. PART 1. WET OXIDATION. PART 2. INCINERATION¤
PHS PUBL. NO. 999-WP-3. OCT. 1963. 78 PP.

9WP-04
BARDUHN AJ A ROSE RF SWEENY
WASTE-WATER RENOVATION. PART 1. A DESIGN STUDY OF FREEZING AND GAS HYDRATE FORMATION. PART 2. FEASIBILITY TESTS OF FREEZING.
PHS PUBL. NO. 999-WP-4. OCT. 1963. 43 PP.

9WP-05
RUBIN E R EVERETT JR JJ WEINSTOCK HM SCHOEN
CONTAMINANT REMOVAL FROM SEWAGE PLANT EFFLUENTS BY FOAMING.
PHS PUBL. NO. 999-WP-5. DEC. 1963. 56 PP.

9WP-06
GERSTER JA
COST OF PURIFYING MUNICIPAL WASTE WATERS BY DISTILLATION.
PHS PUBL. NO. 999-WP-6. NOV. 1963. 43 PP.

9WP-07
WASTLER TA
APPLICATION OF SPECTRAL ANALYSIS TO STREAM AND ESTUARY FIELD SURVEYS. I. INDIVIDUAL POWER SPECTRA.
PHS PUBL. NO. 999-WP-7. NOV. 1963. 31 PP.

9WP-08
MORRIS GL L VAN DEN BERG GL CULP JR GECKLER R PORGES
EXTENDED-AERATION PLANTS AND INTERMITTENT WATERCOURSES.
PHS PUBL. 999-WP-8. JULY 1963. 51 PP.

9WP-09
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ADVANCED WASTE TREATMENT BY DISTILLATION.
PHS PUBL. NO. 999-WP-9. MAR. 1964. 55 PP.

9WP-10
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ULTIMATE DISPOSAL OF ADVANCED-TREATMENT WASTE. PART 1. INJECTION. PART 2. PLACEMENT IN UNDERGROUND CAVITIES. PART 3. SPREADING.
PHS PUBL. NO. 999-WP-10. MAY 1964. 146 PP.

9WP-11
MORRIS JC WJ WEBER JR
ADSORPTION OF BIOCHEMICALLY RESISTANT MATERIALS FROM SOLUTION. 1.
PHS PUBL. NO. 999-WP-11. MAY 1964. 74 PP.

9WP-12
JOYCE RS VA SUKENIK
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PHS PUBL. NO. 999-WP-12. MAY 1964. 32 PP.

9WP-13
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PHS PUBL. NO. 999-WP-13. MAY 1964. 48 PP.

9WP-14
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PHS PUBL. NO. 999-WP-14. JUNE 1964. 91 PP.

9WP-15
ROBERT A TAFT SANITARY ENGINEERING CENTER
ENVIRONMENTAL MEASUREMENTS: VALID DATA AND LOGICAL INTERPRETATION. A SYMPOSIUM□
PHS PUBL. NO.999-WP-15. JULY 1964. 327 PP.

9WP-16
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WASTE STABILIZATION POND STUDY, LEBANON, OHIO□
PHS PUBL. NO. 999-WP-16. MAY 1964. 48 PP.

9WP-17
ROBERT A TAFT SANITARY ENGINEERING CENTER
PESTICIDES IN SOIL AND WATER. AN ANNOTATED BIBLIOGRAPHY□
PHS PUBL. NO. 999-WP-17. SEPT. 1964. 90 PP.

9WP-18
SYMONS JM SR WEIBEL GG ROBECK
INFLUENCE OF IMPOUNDMENTS ON WATER QUALITY. A REVIEW OF LITERATURE AND STATEMENT OF RESEARCH NEEDS□
PHS PUBL. NO. 999-WP-18. OCT. 1964. 78 PP.

9WP-19
MILLER HC W KNIPE
ELECTROCHEMICAL TREATMENT OF MUNICIPAL WASTE WATER□
PHS PUBL. NO. 999-WP-19. MAR. 1965. 58PP.

9WP-20
MACKENTHUN KM WM INGRAM
POLLUTION AND THE LIFE IN WATER□
PHS PUBL. NO. 999-WP-20. OCT. 1964. 16 PP.

9WP-21
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DEEP-WELL INJECTION OF LIQUID WASTE¤
PHS PUBL. NO. 999-WP-21. 1965. 55 PP.

9WP-22
ROBERT A. TAFT SANITARY ENGINEERING CENTER
INTERACTION OF HEAVY METALS AND THE BIOLOGICAL TREATMENT PROCESSES¤
PHS PUBL. NO. 999-WP-22. 1965. 201 PP.

9WP-23
MOUNT DI RE WARNER
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PHS PUBL. NO. 999-WP-23. 1965. 16 PP.

9WP-24
ROBERT A. TAFT SANITARY ENGINEERING CENTER¤
SUMMARY REPORT. THE ADVANCE WASTE TREATMENT RESEARCH PROGRAM. JANUARY 1962 THROUGH JUNE 1964¤
PHS PUBL. NO. 999-WP-24. APR. 1965. 142PP.

9WP-25
TARZWELL CM. CHM. P DOUDOROFF EW SURBER
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BIOLOGICAL PROBLEMS IN WATER POLLUTION. THIRD SEMINAR. 1962¤
TRANS. OF SEMINAR. CINCINNATI. OHIO. AUG. 13-17. 1962.
PHS PUBL. NO. 999-WP-25. 1965. 424 PP.

9WP-26
ROBERT A. TAFT SANITARY ENGINEERING CENTER
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PHS PUBL. NO. 999-WP-26. 1965. 75 PP.

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PHS PUBL. NO. 999-WP-31. 1965. 13 PP.

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